

WENG CHAN

wengchan99899@gmail.com | [linkedin.com/in/wengchan-uk](https://www.linkedin.com/in/wengchan-uk) | wengchan.dev

PROFESSIONAL PROFILE

Entrepreneurial Software & ML Engineer (First-Class BSc) who ships fast, reliable, scalable products and aligns teams on clear goals. Led a virtual try-on product from idea to launch with sub-second experiences at scale while growing an engaged waitlist. Focused on productivity and quality, I lead and communicate to balance product demands with engineering principles. Multiple cross-discipline hackathon wins show I pair strong engineering with steady leadership to deliver high-expectation products.

PROFESSIONAL SKILLS

Languages: Python, C++, Java, JavaScript, TypeScript, SQL, Bash

Frontend: SvelteKit, React, SPA & SSR, accessibility basics

Backend: Node.js, Express, Flask, REST APIs, Auth, Queues, Caching

Data: PostgreSQL, Supabase, MySQL

Cloud: Cloudflare Workers & KV & Durable Objects, AWS, Docker

AI/ML: PyTorch, TensorFlow, Scikit-learn, Neural Networks, Random Forest, SVM, KNN, PCA, Logistic Regression

PROJECTS

Stylezy – Svelte-kit SSR, Supabase, Cloudflare, AWS, Docker

- Reduced try on p95 latency from 2.0 s to under 0.8 s using edge cache keys and circuit breaker retries; maintained a 99.9% SLO with more than 1,000 concurrent sessions.
- Hardened data paths with row level security across more than 15 tables, signed URLs and least privilege policies; recorded zero unauthorised access incidents.
- Cut wardrobe query times from 2.0 s to under 50 ms by deploying more than 40 targeted indexes including covering indexes across five table joins.
- Orchestrated external API batch inference with idempotent jobs, exponential backoff and a dead letter queue; achieved more than 99% success in peak tests.
- Built an analytics funnel that prioritised features and grew a pre-launch waitlist to more than 400 users.

Full-stack Warehouse Management System – Vue 3, Java, MySQL

- Shipped inbound, storage, picking, packing and dispatch flows with ACID boundaries.
- Ensured exactly-once inventory movements using idempotency keys and optimistic locking; eliminated double-booked stock events.
- Implemented four-way shuttle rules for reservation, queue priority, deadlock avoidance and charger windows; surfaced real-time telemetry to the operations UI.

AI vs Real Image Classifier – MLP, CNN, Numpy, Pandas, Matplotlib, Pytorch

- Developed a multilayer perceptron model from scratch using NumPy, achieving 90% accuracy.
- Built and optimised a Convolutional Neural Network (CNN) using PyTorch, achieving 94% accuracy.
- Pre-processed a dataset of 120,000 of real and AI images using resizing, normalisation, and augmentation to improve training data quality.
- Addressed imbalanced dataset issues using both random oversampling and stratified sampling techniques.

TruthChain – Svelte-kit, Heroku, PostgreSQL, SmartPy, LIGO, Tezos

- Designed and developed a decentralised Tezos blockchain application leveraging content hashing, a credibility tracking system, and community knowledge power to validate content truthfulness.
- Utilised Taquito, SmartPy, and LIGO to build and deploy smart contracts on the main net, enabling functionality to track votes, calculate returns for users, and facilitate secure application logic.
- Built and deployed a full-featured version of the app on Heroku to manage users and content, where users can post, attach images and videos, comment, vote, and interact with community content.

AWARDS AND RECOGNITIONS

- 3rd Prize, International Tezos W3B Hackathon (2024): A blockchain-based solution for information validation
- Champion, Microsoft Regional Hackathon (2024): An adaptive teaching tool using image-to-text technology
- Champion, Tezos W3B Blockchain Hackathon (2024): A blockchain-based MVP solution for information validation
- 2nd Prize, London42 Hackathon (2024): An AI solution to analyse and improve education engagement
- Champion, City Spark Start-Up Grand Final (2024): An MVP of a virtual try-on application
- Champion, Microsoft Business Challenge (2023): A smart scheduling solution to address maternal disadvantages
- Yamaha Piano Teacher Grades (2022)

EXPERIENCE

Stylezy (Pre-launch)**CTO & Founder**

May 2024 – Present

- Delivered an edge-first virtual try-on and digital wardrobe MVP with a cache-aware single-page app governed by row-level security.
- Built an event-driven try-on pipeline with idempotent orchestration, exponential backoff and a dead-letter queue.
- Implemented privacy-by-design through least-privilege access, audit trails and zero-PII logs.
- Drove an analytics-led roadmap and onboarded more than 400 waitlist users before launch.

Henwell**Software Engineer**

Jan 2025 – Sep 2025

- Delivered core WMS modules for inbound, storage, picking, packing and dispatch with clear ACID boundaries.
- Implemented four-way shuttle automation with reservation rules, prioritisation, deadlock avoidance and charger scheduling together with real-time telemetry.
- Introduced observability with logs, metrics and alerts and playbooks; enabled SLA tracking and bottleneck discovery.
- Ran live-bay UAT, trained staff across shifts and supported organisational change.

Malconrep Logistics**Software Engineer**

May 2024 – Sep 2024

- Replaced spreadsheet workflows with integrated accounting, delivery tracking and billing systems.
- Shipped a driver portal covering status updates, routes and proof of delivery.
- Automated carrier integrations and month-end reporting with robust validation rules.

EDUCATION**City, University of London****BSc Computer Science**

Sep 2022 - Sep 2025

- **Grades:** First Class Honours